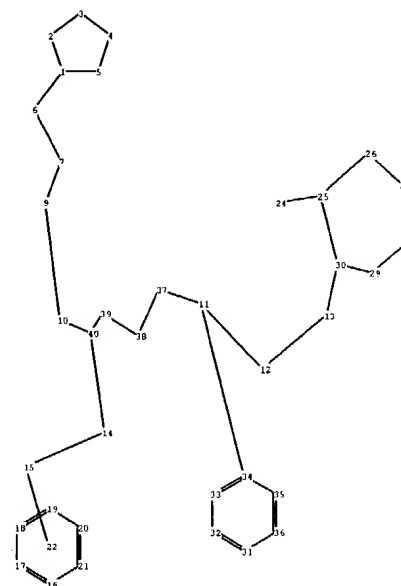
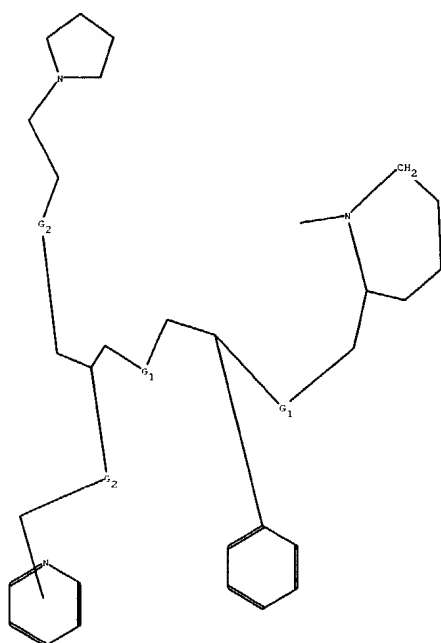


in nodes :
 8 10 11 17 22 23 24 34 38 45 54
 g nodes :
 1 2 3 4 5 6 9 15 16 19 20 21 25 26 27 28 29 30 33 35 36 37 40 41
 42 43 44 46 47 48 49 50 51 52 53 55 56 57
 in bonds :
 6-8 16-17 19-50 21-45 22-23 22-57 23-24 33-34 37-38 53-54
 g bonds :
 1-2 1-5 1-6 2-3 3-4 4-5 5-33 6-9 9-15 15-16 16-57 19-20 19-53 20-21 21-46
 25-26 25-30 26-27 27-28 28-29 29-30 33-35 35-36 36-37 37-40 40-41 40-46 41-42
 42-43 43-44 44-46 47-48 47-52 48-49 49-50 50-51 51-52 53-55 55-56 56-57
 ct/norm bonds :
 1-2 1-5 1-6 2-3 3-4 4-5 5-33 6-8 6-9 9-15 15-16 16-17 16-57 19-50 19-20
 19-53 20-21 21-45 21-46 22-23 22-57 23-24 33-34 33-35 35-36 36-37 37-38 37-40
 40-41 40-46 41-42 42-43 43-44 44-46 53-54 53-55 55-56 56-57
 malized bonds :
 25-26 25-30 26-27 27-28 28-29 29-30 47-48 47-52 48-49 49-50 50-51 51-52
 lated ring systems :
 containing 1 : 25 : 47 :

0,s

[*1],[*2]

ch level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 8:CLASS 9:Atom 10:CLASS 11:CLASS
 15:Atom 16:Atom 17:CLASS 19:Atom 20:CLASS 21:Atom 22:CLASS 23:CLASS 24:CLASS
 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:CLASS 33:Atom 34:CLASS
 35:Atom 36:Atom 37:Atom 38:CLASS 40:Atom 41:Atom 42:Atom 43:Atom 44:Atom
 45:CLASS 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 51:Atom 52:Atom 53:Atom
 54:CLASS 55:CLASS 56:Atom 57:Atom

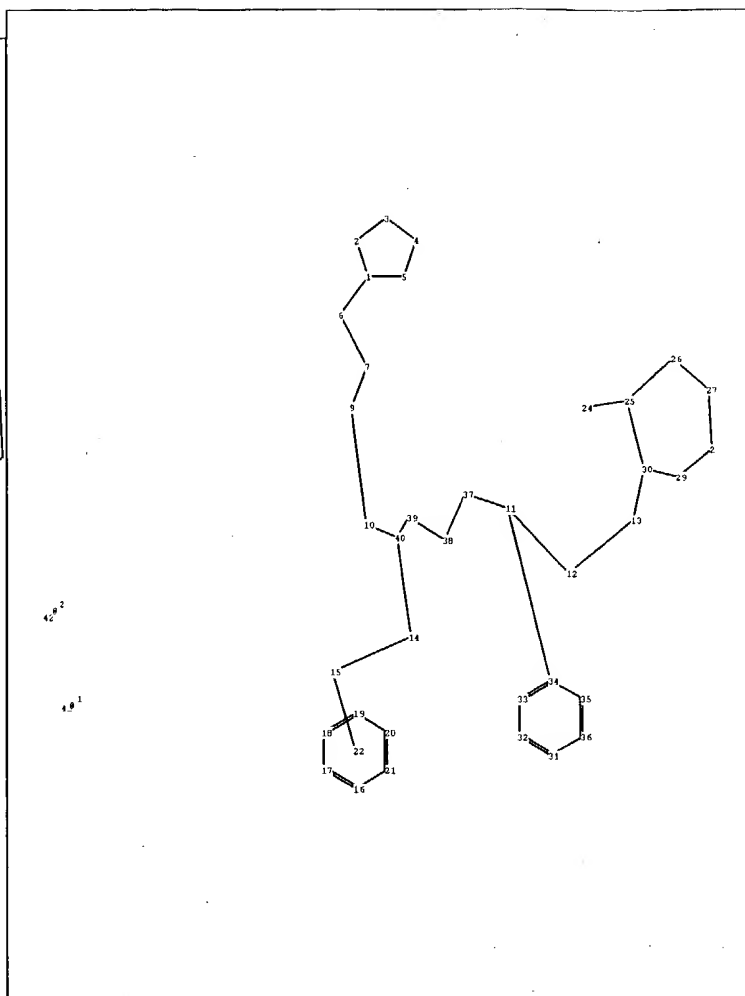
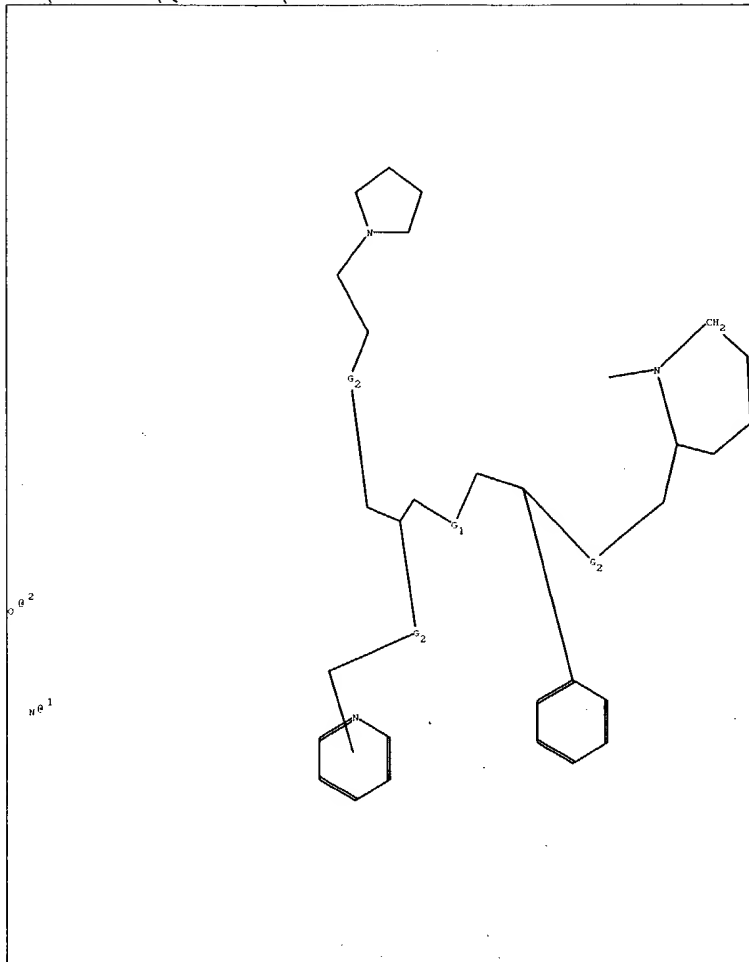


main nodes :
 6 7 9 10 11 12 13 14 15 24 37 38 39 40 41 42
 ng nodes :
 1 2 3 4 5 16 17 18 19 20 21 25 26 27 28 29 30 31 32 33 34 35 36
 main bonds :
 1-6 6-7 7-9 9-10 10-40 11-34 11-12 11-37 12-13 13-30 14-15 14-40 24-25 37-38
 38-39 39-40
 ng bonds :
 1-2 1-5 2-3 3-4 4-5 16-17 16-21 17-18 18-19 19-20 20-21 25-26 25-30 26-27
 27-28 28-29 29-30 31-32 31-36 32-33 33-34 34-35 35-36
 act/norm bonds :
 1-2 1-5 1-6 7-9 9-10 11-12 12-13 14-15 14-40 24-25 25-26 25-30 26-27 27-28
 28-29 29-30 37-38 38-39
 act bonds :
 2-3 3-4 4-5 6-7 10-40 11-34 11-37 13-30 39-40
 rmalized bonds :
 16-17 16-21 17-18 18-19 19-20 20-21 31-32 31-36 32-33 33-34 34-35 35-36
 olatated ring systems :
 containing 1 : 16 : 31 :

:[*1],[*2]

atch level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 9:Atom 10:Atom 11:Atom
 12:CLASS 13:Atom 14:CLASS 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom
 21:Atom 22:CLASS 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom
 32:Atom 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:CLASS 39:Atom 40:Atom
 41:CLASS 42:CLASS



chain nodes :

6 7 9 10 11 12 13 14 15 24 37 38 39 40 41 42

ring nodes :

1 2 3 4 5 16 17 18 19 20 21 25 26 27 28 29 30 31 32 33 34 35 36

chain bonds :

1-6 6-7 7-9 9-10 10-40 11-34 11-12 11-37 12-13 13-30 14-15 14-40 24-25 37-38
38-39 39-40

ring bonds :

1-2 1-5 2-3 3-4 4-5 16-17 16-21 17-18 18-19 19-20 20-21 25-26 25-30 26-27
27-28 28-29 29-30 31-32 31-36 32-33 33-34 34-35 35-36

exact/norm bonds :

1-2 1-5 1-6 7-9 9-10 11-12 12-13 14-15 14-40 24-25 25-26 25-30 26-27 27-28
28-29 29-30 37-38 38-39

exact bonds :

2-3 3-4 4-5 6-7 10-40 11-34 11-37 13-30 39-40

normalized bonds :

16-17 16-21 17-18 18-19 19-20 20-21 31-32 31-36 32-33 33-34 34-35 35-36

isolated ring systems :

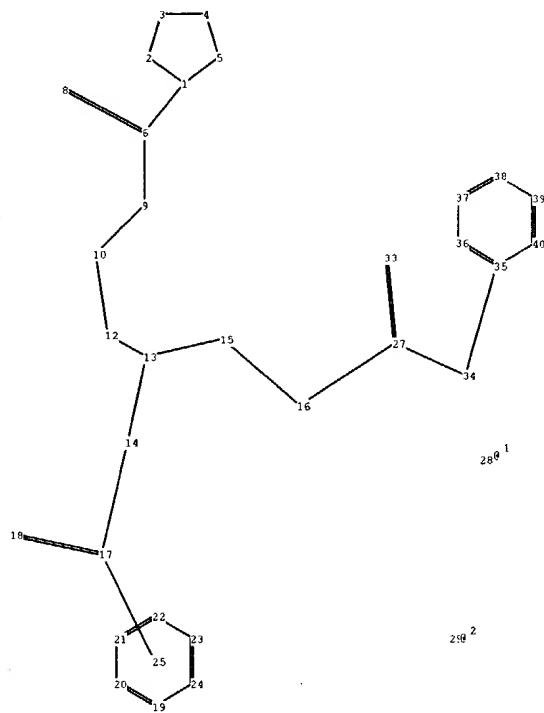
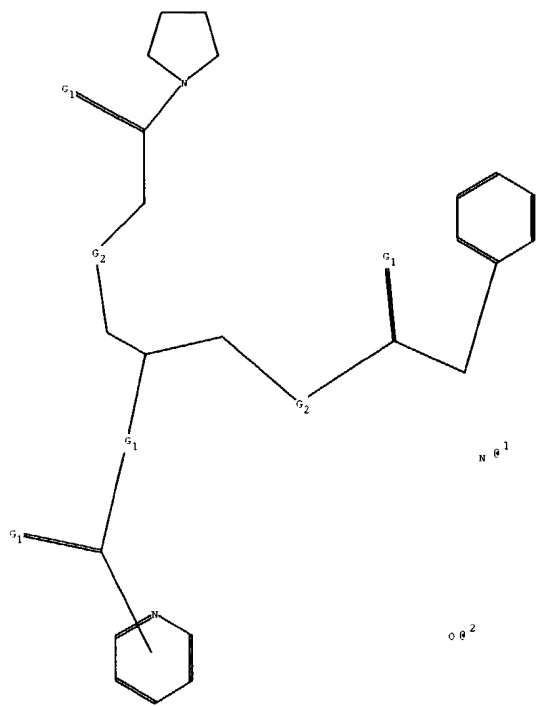
containing 1 : 16 : 31 :

G2:[*1],[*2]

G3:O,S

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 9:Atom 10:Atom 11:Atom 12:Atom
13:Atom 14:CLASS 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom
22:CLASS 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom
33:Atom 34:Atom 35:Atom 36:Atom 37:Atom 38:CLASS 39:Atom 40:Atom 41:CLASS
42:CLASS



chain nodes :

6 8 9 10 12 13 14 15 16 17 18 27 28 29 33 34

ring nodes :

1 2 3 4 5 19 20 21 22 23 24 35 36 37 38 39 40

chain bonds :

1-6 6-8 6-9 9-10 10-12 12-13 13-14 13-15 14-17 15-16 16-27 17-18 27-33 27-34
34-35

ring bonds :

1-2 1-5 2-3 3-4 4-5 19-20 19-24 20-21 21-22 22-23 23-24 35-36 35-40 36-37
37-38 38-39 39-40

exact/norm bonds :

1-2 1-5 1-6 6-8 9-10 10-12 13-14 14-17 15-16 16-27 17-18 27-33

exact bonds :

2-3 3-4 4-5 6-9 12-13 13-15 27-34 34-35

normalized bonds :

19-20 19-24 20-21 21-22 22-23 23-24 35-36 35-40 36-37 37-38 38-39 39-40

isolated ring systems :

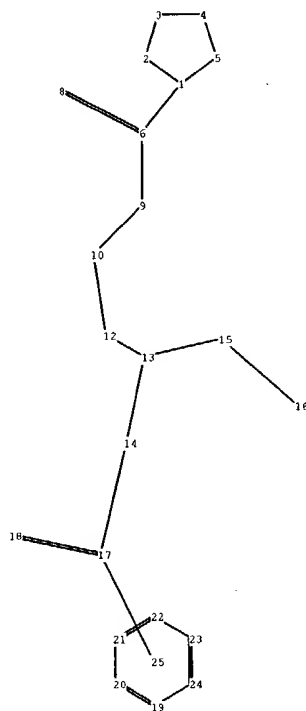
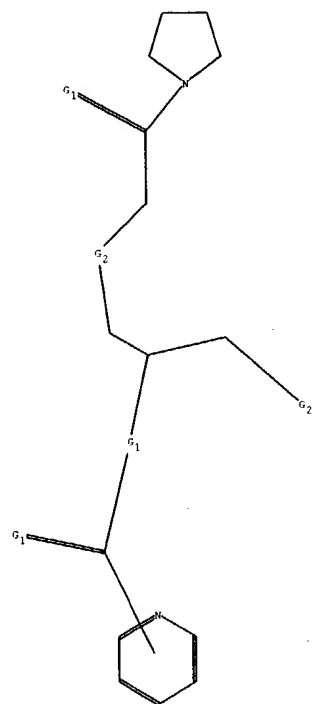
containing 1 : 19 : 35 :

G1:O,S

G2:[*1],[*2]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 8:CLASS 9:CLASS 10:CLASS 12:CLASS
13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:Atom 20:Atom 21:Atom
22:Atom 23:Atom 24:Atom 25:CLASS 27:CLASS 28:CLASS 29:CLASS 33:CLASS 34:CLASS
35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:Atom



```

chain nodes :
  6 8 9 10 12 13 14 15 16 17 18 27 28
ring nodes :
  1 2 3 4 5 19 20 21 22 23 24
chain bonds :
  1-6 6-8 6-9 9-10 10-12 12-13 13-14 13-15 14-17 15-16 17-18
ring bonds :
  1-2 1-5 2-3 3-4 4-5 19-20 19-24 20-21 21-22 22-23 23-24
exact/norm bonds :
  1-2 1-5 1-6 6-8 9-10 10-12 13-14 14-17 15-16 17-18
exact bonds :
  2-3 3-4 4-5 6-9 12-13 13-15
normalized bonds :
  19-20 19-24 20-21 21-22 22-23 23-24
isolated ring systems :
  containing 1 : 19 :

```

G1:O,S

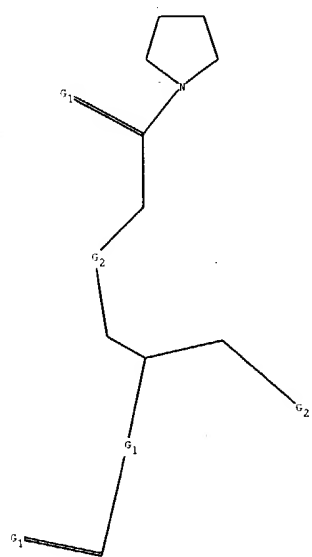
G2:[*1],[*2]

Match level :

```

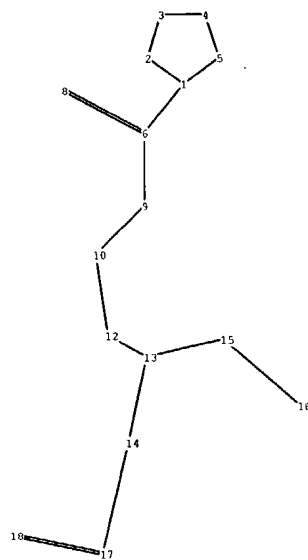
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 8:CLASS 9:CLASS 10:CLASS 12:CLASS
13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:Atom 20:Atom 21:Atom
22:Atom 23:Atom 24:Atom 25:CLASS 27:CLASS 28:CLASS

```



N @ 1

O @ 2



19 @ 1

2 @ 2

chain nodes :

6 8 9 10 12 13 14 15 16 17 18 19 20

ring nodes :

1 2 3 4 5

chain bonds :

1-6 6-8 6-9 9-10 10-12 12-13 13-14 13-15 14-17 15-16 17-18

ring bonds :

1-2 1-5 2-3 3-4 4-5

exact/norm bonds :

1-2 1-5 1-6 6-8 9-10 10-12 13-14 14-17 15-16 17-18

exact bonds :

2-3 3-4 4-5 6-9 12-13 13-15

G1:O,S

G2:[*1],[*2]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 8:CLASS 9:CLASS 10:CLASS 12:CLASS
13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS

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 and June 2004
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 NEWS 6 May 12 Polymer links for the POLYLINK command completed in REGISTRY
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 SDIs in CPlus
 NEWS 9 May 27 CPlus super roles and document types searchable in REGISTRY
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 AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
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 NEWS INTER General Internet Information
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 specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:33:19 ON 23 JUN 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 09:33:28 ON 23 JUN 2004
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file.
 provided by InfoChem.

STRUCTURE FILE UPDATES: 22 JUN 2004 HIGHEST RN 697737-72-7
 DICTIONARY FILE UPDATES: 22 JUN 2004 HIGHEST RN 697737-72-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

L1 STRUCTURE UPLOADED

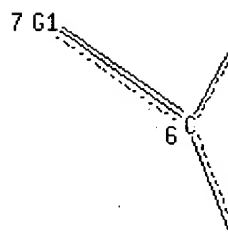
=> d l1.

L1 HAS NO ANSWERS

L1 STR

0 50 S 51

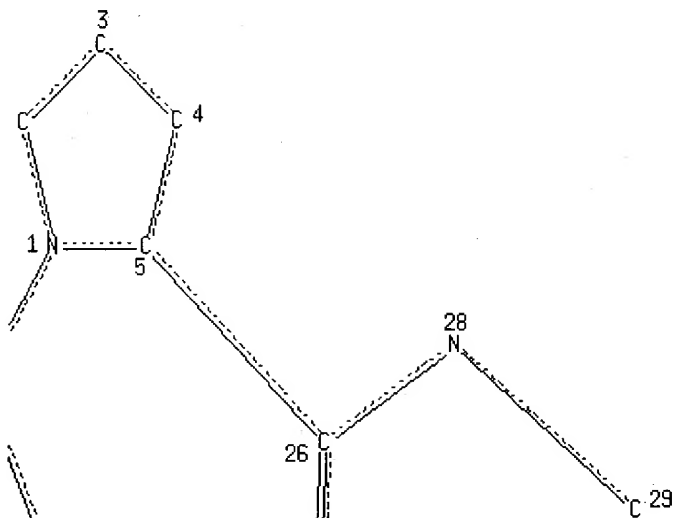
2



Page 1-A

N 9

O 10

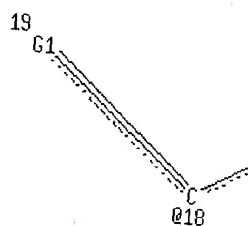
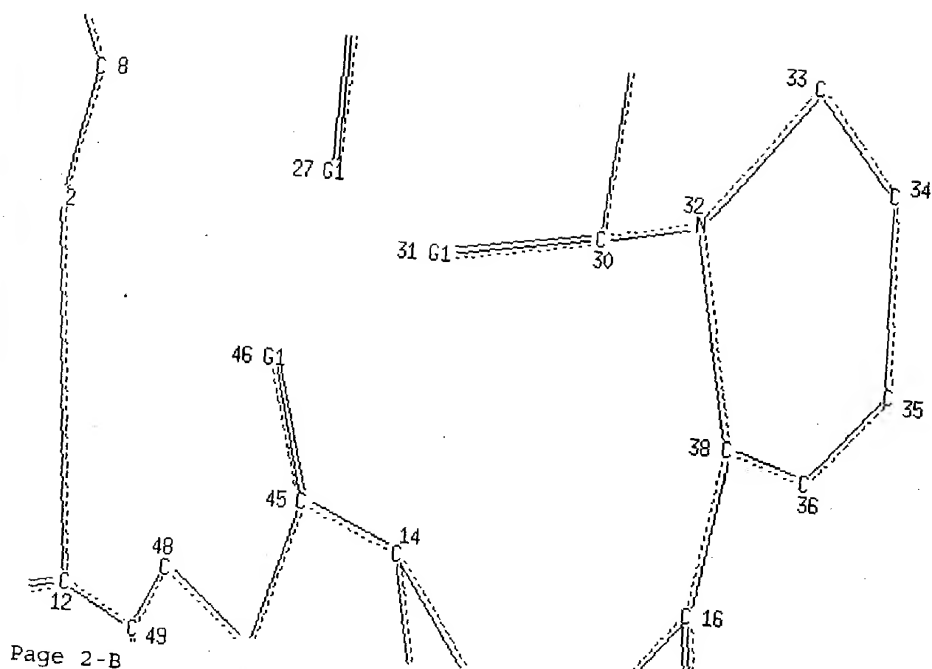


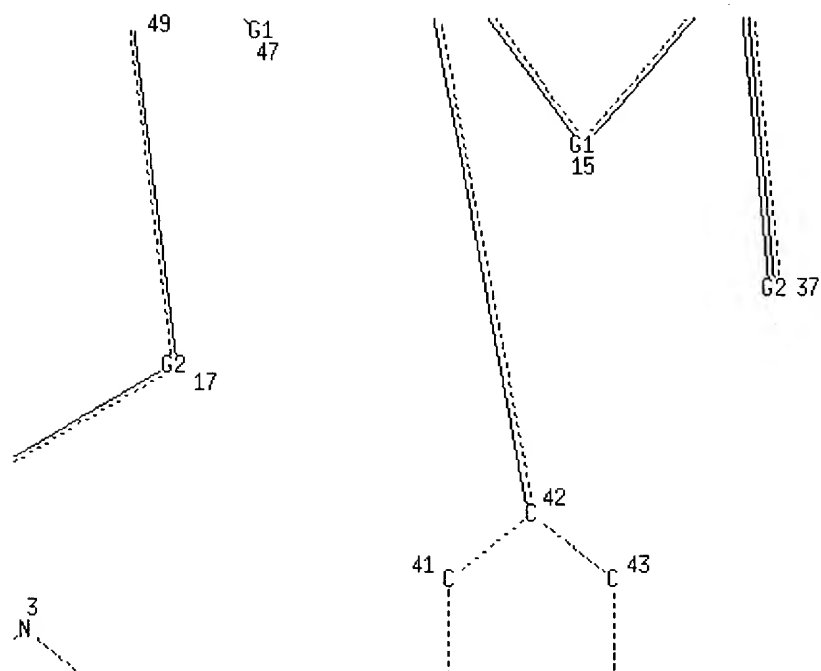
M2

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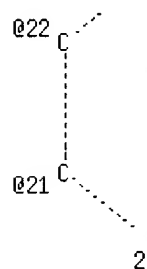
11 G1

13 G1
Page 2-A

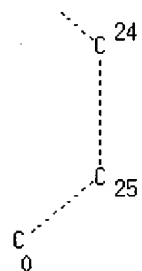




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Page 4 - A



Page 4-B

VAR G1=50/51

```
VAR G2=9/10
```

VPA 18-21/22 S

NODE ATTRIBUTES:

HCOUNT	IS M2	AT	33
NSPEC	IS R	AT	1
NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
NSPEC	IS R	AT	6
NSPEC	IS C	AT	7
NSPEC	IS R	AT	8
NSPEC	IS C	AT	9

```

NSPEC  IS C      AT  10
NSPEC  IS R      AT  11
NSPEC  IS R      AT  12
NSPEC  IS C      AT  13
NSPEC  IS R      AT  14
NSPEC  IS R      AT  15
NSPEC  IS R      AT  16
NSPEC  IS C      AT  17
NSPEC  IS C      AT  18
NSPEC  IS C      AT  19
NSPEC  IS R      AT  20
NSPEC  IS R      AT  21
NSPEC  IS R      AT  22
NSPEC  IS R      AT  23
NSPEC  IS R      AT  24
NSPEC  IS R      AT  25
NSPEC  IS R      AT  26
NSPEC  IS C      AT  27
NSPEC  IS R      AT  28
NSPEC  IS R      AT  29
NSPEC  IS R      AT  30
NSPEC  IS C      AT  31
NSPEC  IS R      AT  32
NSPEC  IS R      AT  33
NSPEC  IS R      AT  34
NSPEC  IS R      AT  35
NSPEC  IS R      AT  36
NSPEC  IS C      AT  37
NSPEC  IS R      AT  38
NSPEC  IS R      AT  39
NSPEC  IS R      AT  40
NSPEC  IS R      AT  41
NSPEC  IS R      AT  42
NSPEC  IS R      AT  43
NSPEC  IS R      AT  44
NSPEC  IS R      AT  45
NSPEC  IS C      AT  46
NSPEC  IS R      AT  47
NSPEC  IS R      AT  48
NSPEC  IS R      AT  49

```

DEFAULT MLEVEL IS ATOM

MLEVEL IS CLASS AT 9 10 18 50 51

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 51

STEREO ATTRIBUTES: NONE

=> s 11

SAMPLE SEARCH INITIATED 09:42:14 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0
 PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s 11 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 09:42:19 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS
 SEARCH TIME: 00.00.01

0 ANSWERS

L3 0 SEA SSS FUL L1

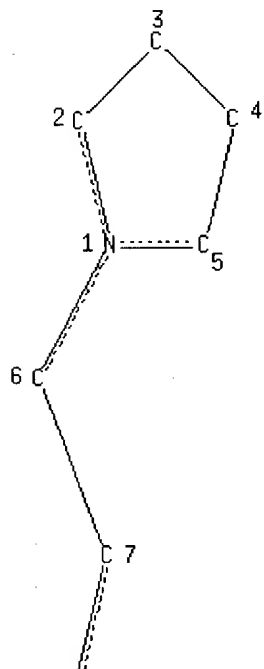
=>

L4 STRUCTURE UPLOADED

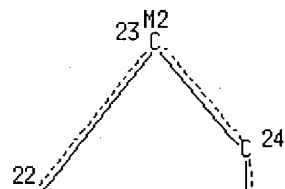
=> d 14

L4 HAS NO ANSWERS

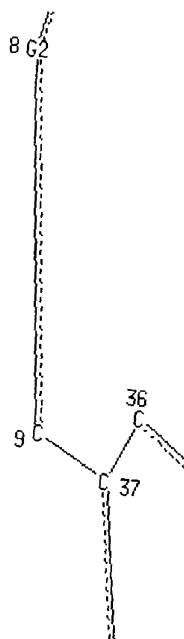
L4 STR



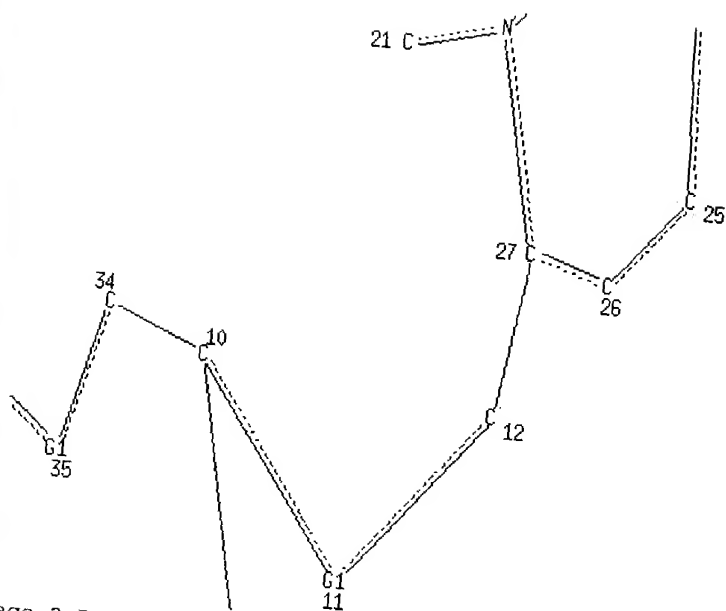
Page 1-A



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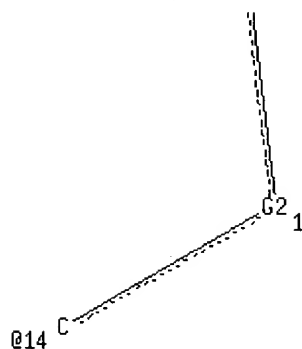


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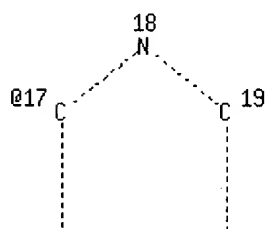


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O 39

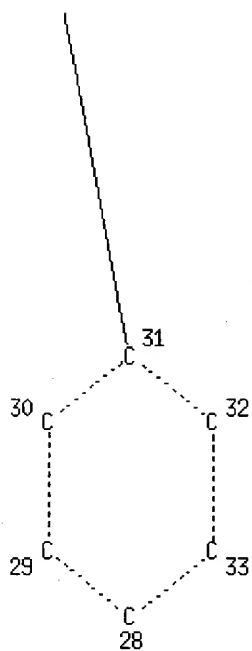


N 38

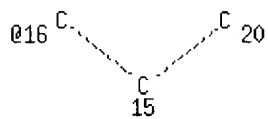


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3



Page 3-B



Page 4-A

VAR G2=38-7 38-9:38-14 38-37/39-7 39-9:39-14 39-37

VPA 14-16/17 S

NODE ATTRIBUTES:

HCOUNT	IS	M2	AT	23
NSPEC	IS	R	AT	1
NSPEC	IS	R	AT	2
NSPEC	IS	R	AT	3

```

NSPEC   IS R      AT    4
NSPEC   IS R      AT    5
NSPEC   IS C      AT    6
NSPEC   IS C      AT    7
NSPEC   IS C      AT    8
NSPEC   IS C      AT    9
NSPEC   IS C      AT   10
NSPEC   IS C      AT   11
NSPEC   IS C      AT   12
NSPEC   IS C      AT   13
NSPEC   IS C      AT   14
NSPEC   IS R      AT   15
NSPEC   IS R      AT   16
NSPEC   IS R      AT   17
NSPEC   IS R      AT   18
NSPEC   IS R      AT   19
NSPEC   IS R      AT   20
NSPEC   IS C      AT   21
NSPEC   IS R      AT   22
NSPEC   IS R      AT   23
NSPEC   IS R      AT   24
NSPEC   IS R      AT   25
NSPEC   IS R      AT   26
NSPEC   IS R      AT   27
NSPEC   IS R      AT   28
NSPEC   IS R      AT   29
NSPEC   IS R      AT   30
NSPEC   IS R      AT   31
NSPEC   IS R      AT   32
NSPEC   IS R      AT   33
NSPEC   IS C      AT   34
NSPEC   IS C      AT   35
NSPEC   IS C      AT   36
NSPEC   IS C      AT   37
NSPEC   IS C      AT   38
NSPEC   IS C      AT   39
DEFAULT MLEVEL IS ATOM
MLEVEL   IS CLASS AT  14 38 39
DEFAULT ECLEVEL IS LIMITED

```

GRAPH ATTRIBUTES:

```

RSPEC  15  28   1
NUMBER OF NODES IS  39

```

STEREO ATTRIBUTES: NONE

=> s 14

SEARCH FAILED DUE TO A STRUCTURE QUERY ERROR

The structure query could not be searched. Please review and revise your structure query, especially checking the variable definitions and attachments. In rare instances the failure may be due to a system problem. Please contact your local STN Help Desk if you need assistance.

=>

L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR

=> s 15

SEARCH FAILED DUE TO A STRUCTURE QUERY ERROR

The structure query could not be searched. Please review and revise your structure query, especially checking the variable definitions and attachments. In rare instances the failure may be due to a system problem. Please contact your local STN Help Desk if you need assistance.

=>

L6 STRUCTURE UPLOADED

=> d 16

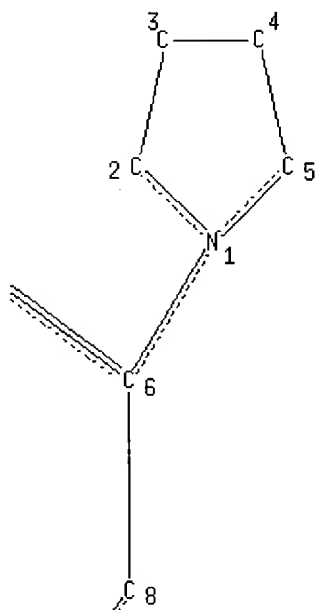
L6 HAS NO ANSWERS

L6 STR

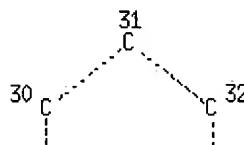
0 34 S 35

7 G1

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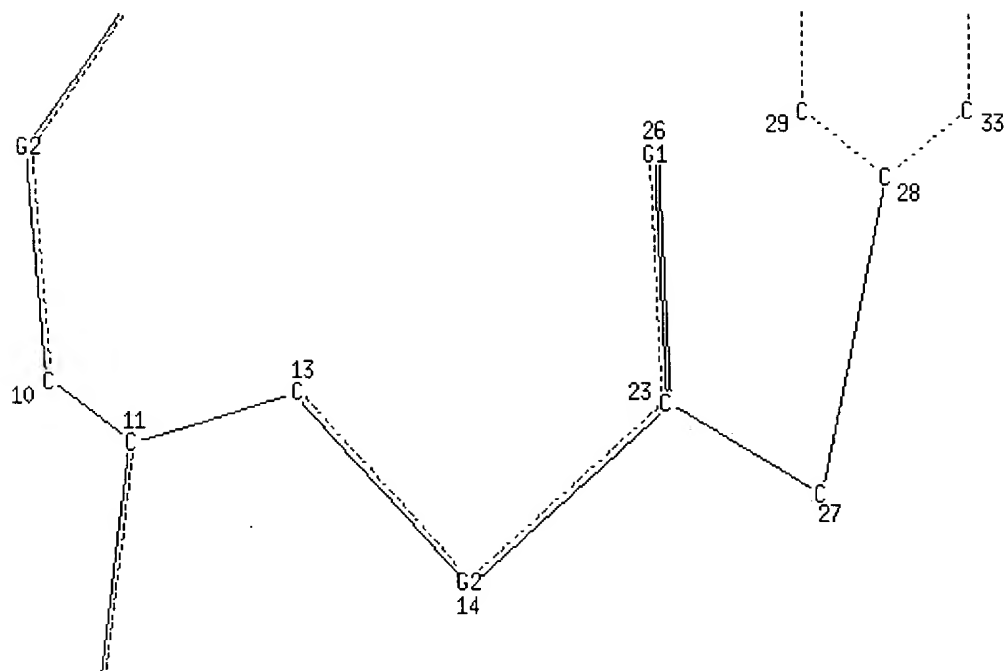


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9

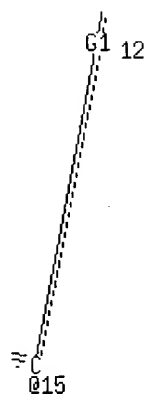
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Page 2-A



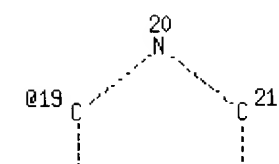
Page 2-B



Page 3-A

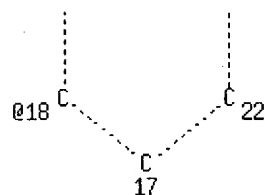


N 24



O 25

Page 3-B



Page 4-B

VAR G1=34/35

VAR G2=24-8 24-10:24-13 24-23/25-8 25-10:25-13 25-23

VPA 15-18/19 S

NODE ATTRIBUTES:

NSPEC	IS R	AT	1
NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
NSPEC	IS C	AT	6
NSPEC	IS C	AT	7
NSPEC	IS C	AT	8
NSPEC	IS C	AT	9
NSPEC	IS C	AT	10
NSPEC	IS C	AT	11
NSPEC	IS C	AT	12
NSPEC	IS C	AT	13
NSPEC	IS C	AT	14
NSPEC	IS C	AT	15
NSPEC	IS C	AT	16
NSPEC	IS R	AT	17
NSPEC	IS R	AT	18
NSPEC	IS R	AT	19
NSPEC	IS R	AT	20
NSPEC	IS R	AT	21
NSPEC	IS R	AT	22
NSPEC	IS C	AT	23

```

NSPEC  IS C      AT  24
NSPEC  IS C      AT  25
NSPEC  IS C      AT  26
NSPEC  IS C      AT  27
NSPEC  IS R      AT  28
NSPEC  IS R      AT  29
NSPEC  IS R      AT  30
NSPEC  IS R      AT  31
NSPEC  IS R      AT  32
NSPEC  IS R      AT  33
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS AT   6   8 10 11 13 15 23 24 25 27 34 35
DEFAULT ECLEVEL IS LIMITED

```

GRAPH ATTRIBUTES:

```

RSPEC I
NUMBER OF NODES IS  35

```

STEREO ATTRIBUTES: NONE

=> s 16

```

SAMPLE SEARCH INITIATED 09:51:52 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      12 TO ITERATE

```

```

100.0% PROCESSED      12 ITERATIONS      0 ANSWERS
SEARCH TIME: 00.00.01

```

```

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   33 TO      447
PROJECTED ANSWERS:      0 TO      0

```

L7 0 SEA SSS SAM L6

=> s 16 full

```

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 09:51:57 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      177 TO ITERATE

```

```

100.0% PROCESSED      177 ITERATIONS      0 ANSWERS
SEARCH TIME: 00.00.01

```

L8 0 SEA SSS FUL L6

=>

L9 STRUCTURE UPLOADED

=> d 19

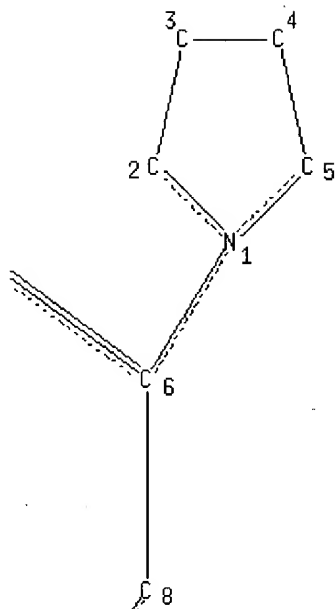
L9 HAS NO ANSWERS

L9 STR

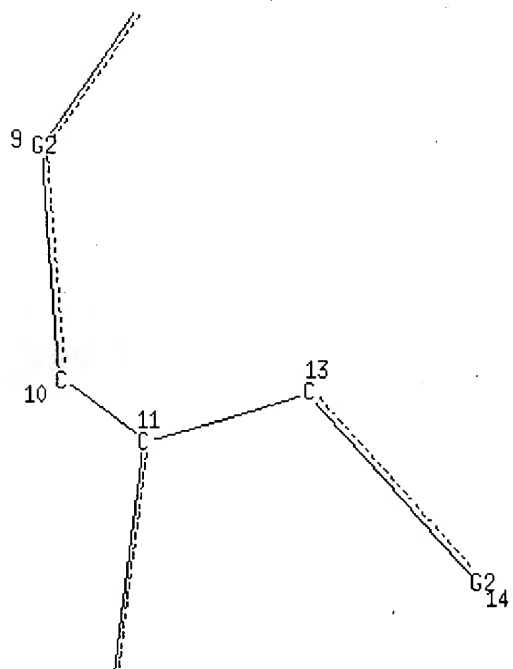
0 25 S 26

7 61

Page 1-A



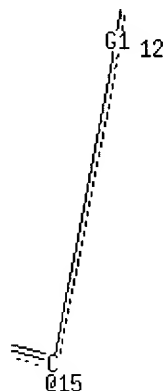
Page 1-B



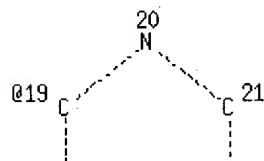
Page 2-B



Page 3-A

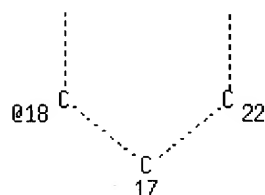


N 23



O 24

Page 3-B



Page 4-B

VAR G1=25/26

VAR G2=23/24

VPA 15-18/19 S

NODE ATTRIBUTES:

NSPEC	IS R	AT	1
NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
NSPEC	IS C	AT	6
NSPEC	IS C	AT	7
NSPEC	IS C	AT	8
NSPEC	IS C	AT	9
NSPEC	IS C	AT	10
NSPEC	IS C	AT	11
NSPEC	IS C	AT	12
NSPEC	IS C	AT	13
NSPEC	IS C	AT	14
NSPEC	IS C	AT	15
NSPEC	IS C	AT	16
NSPEC	IS R	AT	17
NSPEC	IS R	AT	18
NSPEC	IS R	AT	19

NSPEC IS R AT 20
 NSPEC IS R AT 21
 NSPEC IS R AT 22
 NSPEC IS C AT 23
 NSPEC IS C AT 24
 DEFAULT MLEVEL IS ATOM
 MLEVEL IS CLASS AT 6 8 10 11 13 15 23 24 25 26
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC I
 NUMBER OF NODES IS 26

STEREO ATTRIBUTES: NONE

=> s 19
 SAMPLE SEARCH INITIATED 09:52:51 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 94 TO ITERATE

100.0% PROCESSED 94 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 1299 TO 2461
 PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L9

=> s 19 full
 THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
 FULL SEARCH INITIATED 09:52:56 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 1819 TO ITERATE

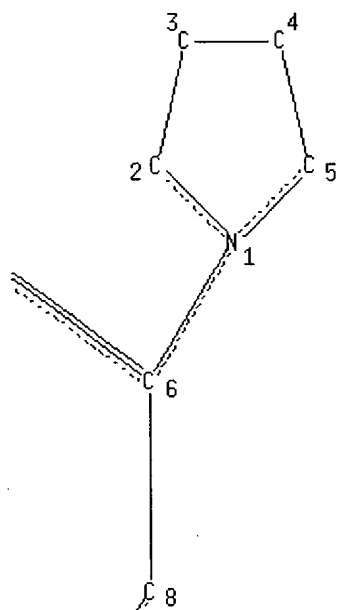
100.0% PROCESSED 1819 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

L11 0 SEA SSS FUL L9

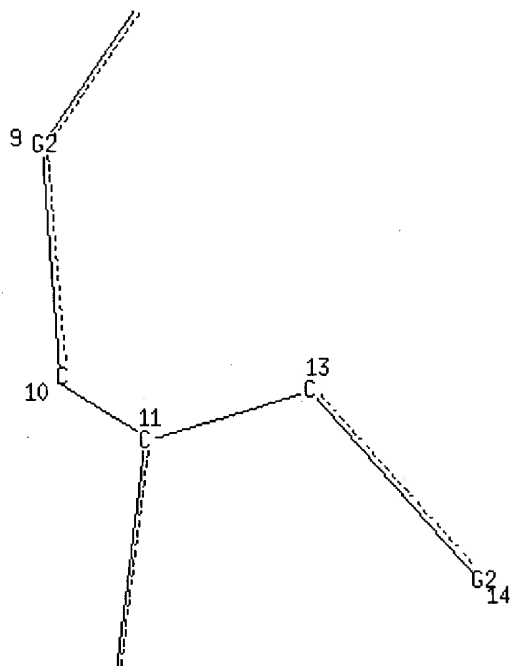
=>
 L12 STRUCTURE UPLOADED

=> d 112
 L12 HAS NO ANSWERS
 L12 STR
 0 19 S 20

7 61



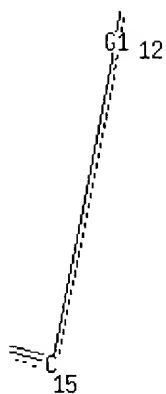
Page 1-B



Page 2-B



Page 3-A



N 17

O 18

Page 3-B

VAR G1=19/20

VAR G2=17/18

NODE ATTRIBUTES:

NSPEC	IS R	AT	1
NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
NSPEC	IS C	AT	6
NSPEC	IS C	AT	7
NSPEC	IS C	AT	8
NSPEC	IS C	AT	9
NSPEC	IS C	AT	10
NSPEC	IS C	AT	11
NSPEC	IS C	AT	12
NSPEC	IS C	AT	13
NSPEC	IS C	AT	14
NSPEC	IS C	AT	15
NSPEC	IS C	AT	16
NSPEC	IS C	AT	17
NSPEC	IS C	AT	18

DEFAULT MLEVEL IS ATOM

MLEVEL IS CLASS AT 6 8 10 11 13 15 17 18 19 20

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE

=> s 112

SAMPLE SEARCH INITIATED 09:53:50 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 4385 TO ITERATE

22.8% PROCESSED 1000 ITERATIONS

0 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 83730 TO 91670

PROJECTED ANSWERS: 0 TO 0

L13 0 SEA SSS SAM L12

=> s l12 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 09:53:55 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 88324 TO ITERATE

100.0% PROCESSED 88324 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

L14 2 SEA SSS FUL L12

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

634.28

634.49

FILE 'HCAPLUS' ENTERED AT 09:54:00 ON 23 JUN 2004

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FILE COVERS 1907 - 23 Jun 2004 VOL 140 ISS 26

FILE LAST UPDATED: 22 Jun 2004 (20040622/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l14

L15 1 L14

=> d l15, ibib abs fhitr, 1

L15 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Citing References
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ACCESSION NUMBER: 1978:191481 HCAPLUS

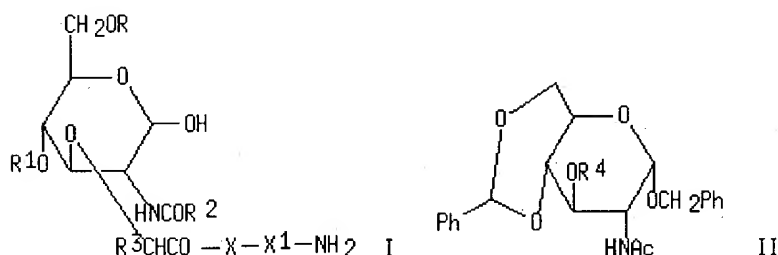
DOCUMENT NUMBER: 88:191481

TITLE: Immunological adjuvant compounds

INVENTOR(S): Jones, Gordon H.; Moffatt, John G.; Nestor, John J., Jr.
 PATENT ASSIGNEE(S): Syntex (U.S.A.), Inc., USA
 SOURCE: Ger. Offen., 217 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2718010	A1	19771110	DE 1977-2718010	19770422
DE 2718010	C2	19901108		
US 4082735	A	19780404	US 1976-680260	19760426
US 4082736	A	19780404	US 1976-680618	19760426
PRIORITY APPLN. INFO.:			US 1976-680260	19760426
			US 1976-680618	19760426
			US 1977-777204	19770314

GI



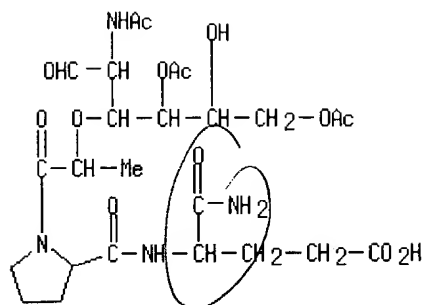
AB D-Glucose-3-O-ylacyl peptides I (R = R1 = H, C1-22-acyl; R2 = C1-21-alkyl, C6-10-aryl; R3 = H, C1-16-alkyl; X = Gly, Ala, Val, Leu, Ile, L-HNCH₂CO, Ser, Thr, Met, Cys, Phe, Tyr, Trp, Lys, Orn, Arg, His, Glu, Gln, Asp, Asn, Pro, Hyp; X1 = D-Asp, D-Glu), useful as immune adjuvants, were prepd. Thus, glucopyranoside II (R4 = H) was treated with NaH and DL-MeCHClCO₂H in DMF and then methylated with MeOSO₂Me to give II (R4 = D-CHMeCO₂Me) which was saponified with aq. NaOH to give II (R4 = D-CHMeCO₂H) (III). III was coupled to H-Val-D-Glu(OCH₂Ph)-NH₂ by diisopropylcarbodiimide/1-hydroxybenzothiazole to give II [R4 = D-CHMeCO-Val-D-Glu(OCH₂Ph)-NH₂] which was deblocked by hydrogenolysis to give I (R = R1 = H, R2 = Me, R3 = D-Me, X = Val, X1 = D-Glu). Data on the immune adjuvant activities of I in guinea pigs and dogs and toxicity data on I in mice are given.

IT 66112-91-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 66112-91-2 HCAPLUS

CN D-α-Glutamine, N2-[1-(N-acetyl-4,6-di-O-acetylmuramoyl)-L-prolyl]-
 (9CI) (CA INDEX NAME)



=> file caold
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
7.12	641.61

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.69	-0.69

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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> d his

(FILE 'HOME' ENTERED AT 09:33:19 ON 23 JUN 2004)

FILE 'REGISTRY' ENTERED AT 09:33:28 ON 23 JUN 2004

L1	STRUCTURE UPLOADED
L2	0 S L1
L3	0 S L1 FULL
L4	STRUCTURE UPLOADED
L5	STRUCTURE UPLOADED
L6	STRUCTURE UPLOADED
L7	0 S L6
L8	0 S L6 FULL
L9	STRUCTURE UPLOADED
L10	0 S L9
L11	0 S L9 FULL
L12	STRUCTURE UPLOADED
L13	0 S L12
L14	2 S L12 FULL

FILE 'HCAPLUS' ENTERED AT 09:54:00 ON 23 JUN 2004
L15 1 S L14

FILE 'CAOLD' ENTERED AT 09:54:26 ON 23 JUN 2004

=> s 114
L16 0 L14
=>